



## **Director of Engineering**

### **Position Overview**

The Director of Engineering leads the entire engineering department, plays an active role in the development and completion of projects, meets and reports back to upper management, plans and monitors work schedules and cash flows, and works with multiple and diverse teams. Additional responsibilities include aligning engineering activities and projects with company goals and objectives, providing expert guidance and support, approving newly-developed engineering plans, and maintaining positive relationships with both internal and external stakeholders.

To be successful as a Director of Engineering, you should have exceptional leadership, communication and project management skills, management experience, and a belief in developing the skills and talents of others. Ideal candidates will have experience in identifying and navigating organizational changes and a keen interest in international trends in engineering and leadership.

### **Essential Functions and Responsibilities**

- Serve as the engineering leader and technical expert.
- Member of the upper management team.
- Implementing best practice engineering methods.
- Providing clear and concise instructions, technical guidance, and support to the engineering team.
- Helping to solve engineering issues as they arise.
- Finding and implementing ways to improve cost-efficiency.
- Research and develop new designs and products.
- Planning and executing strategies for completing projects on time.
- Create detailed engineering plans, processes, and procedures for engineering staff to use and abide by.
- Propose and oversee budgets, timelines, and scope of work for engineering projects.
- Check and confirm the accuracy of the work performed and the methods used by engineering staff.
- Conduct various tests and quality assurance checks to verify the quality of completed projects.
- Hire, train, and supervise engineering staff members.



- Spearhead various research and development initiatives to identify opportunities for new projects and improved processes.
- Communicate and collaborate with other managers, customers and other project stakeholders, suppliers, and contractors.
- Prepare and deliver various engineering-related presentations, both internally and externally.
- Interface closely with mechanical, electrical, controls, and software engineers within a team setting at NRI.
- Ability to scope and seek out external consulting partners for civil, structural, HVAC, fire protection, and other engineering disciplines.

## Reports To

The position will report directly to the President and will also report to the Vice President of Engineering.

## Qualifications

The candidate should be an experienced engineer with proven supervisory and technical skills. The ideal candidate will possess the following knowledge, skills and abilities:

- Minimum of a bachelor's degree in engineering. Master's degree in engineering, engineering management, or business administration preferred. Electrical Engineering background is also preferred but not required.
- Senior level engineering experience, ideally in a management role.
- Analytical and mathematical mind, capable of evaluating and solving various complex problems.
- Leadership skills necessary to manage and develop a team.
- Organizational competencies and project management skills to keep projects, processes, and the entire engineering team on track.
- Experience with utility interconnection regulations, codes and standards, and permitting requirements for MW-scale distributed generation power systems including energy storage systems.
- Experience with lithium-ion battery bank designs from top-tier manufacturers, including installation, commissioning, operation, and relevant safety requirements.
- Design of AC and DC power circuits including sizing, raceways, grounding, protection, and EMI mitigation.
- Experience performing load flow, short-circuit, relay coordination, and arc flash hazard calculations using SKM Power Tools or equivalent.
- Specification of utility interconnection equipment for DG including inverters and transformers.
- Specification of control devices, including PLCs, RTACs, communications network equipment



- Experience with revenue meters, protective relays, circuit breakers, and SCADA systems.
- Experience with design and operation of Microgrids (islanded power systems with grid-tie capability).
- Familiar with CAD drafting standards and development of drawing plan sets and submittal packages for commercial, utility, and state/federal Government clients.
- Excellent written and verbal communication skills.
- Up-to-date knowledge of the energy storage industry.

### **Physical Requirements**

- Ability to communicate orally with customers, vendors, management, and other co-workers is crucial. Regular use of the telephone and e-mail for communication is essential. Sitting for extended periods is common. Hearing and vision within normal ranges is essential for normal conversations, to receive ordinary information, and to prepare or inspect documents.
- Activities require the ability to remain in a stationary position 50% of the time, occasionally move about inside the office to access files or office equipment, operate a computer and other office productivity machinery, such as a calculator, hand held devices, copy machine, and computer printer.
- Some heavy lifting is expected; occasional exertion of up to 50 lbs. of force may be required. Good manual dexterity required for the use of computers, mobile devices, and other productivity technologies.

### **Work Environment**

- The job is primarily performed indoors in a traditional office setting. Extended periods of sitting and extensive work at a computer and phone are normal.
- Secondary job requirements include travel with field work which can consist of hiking, construction work, moving heavy objects and wearing PPE for specific tasks.

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